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<400> 443

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<400> 445

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<400> 446

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 <213> *Saccharomyces cerevisiae*

<400> 447

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2532

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<213> *Saccharomyces cerevisiae*

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1359

<210> 449

<211> 369

<212> DNA

<213> *Saccharomyces cerevisiae*

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<210> 450

<211> 765

<212> DNA

<213> *Saccharomyces cerevisiae*

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<211> 612
<212> DNA
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<210> 452
<211> 3096
<212> DNA
<213> *Saccharomyces cerevisiae*

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<213> *Saccharomyces cerevisiae*

<400> 453

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<211> 1719
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 455

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<210> 456
 <211> 1644
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 456

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<210> 457
<211> 1920
<212> DNA
<213> *Saccharomyces cerevisiae*
<400> 457

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 aaaaagtcaa gcacacaaga tactaacgtg cacgataatt tgagggaatt gaacacaact 1860
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<210> 458
 <211> 1212
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 458

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 gattttttta tcttaccagg tttagtcgat tttgcgtcct ctgaagttag cctacagacc 180
 aagctaacca ggaatattac tttaaacatt ccattagtat cctctccaat ggacactgtg 240
 acggaatctg aaatggccac ttttatggct ctgttggatg gtatcggttt cattcaccat 300
 aactgtactc cagaggacca agctgacatg gtcagaagag tcaagaacta tgaaaatggg 360
 tttattaaca accctatagt gatttctcca actacgaccg ttggtgaagc taagagcatg 420
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 aaagaaagac taagattatt ggtaaaagct ggcttggatg tcgtcatatt ggattcctct 840
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atcaccaggt ga 1212

<210> 459
<211> 1248
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 459

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gcaagggact ttcccttgaa gaagggtccg gctttcgtgg gtccaaaggg ttacaagcta 180
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ggcgccccct acaacaagaa gagcgttgat tctgcgatgg acgctgttga caagatcgtc 420
gacatcttcg agaacagatt gaaaaactac acctatttgg ctacggaaaa catctccttg 480
gccgacttgg tggctgcctc gattttcacc agatactttg aaagcctgtt cggtagtgaa 540
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aagaaggaaa agaaggcccc agccgccgct cccgccgctt cgaagaagaa ggaggaagcc 720
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1248

<210> 460

<211> 1935

<212> DNA

<213> *Saccharomyces cerevisiae*

<400> 460

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tcgatgaaac tttttgaaca gttatacaag aacagtgaca atcctgaaac taagaacggg 1920
agagaaaata aataa 1935

<210> 461
<211> 1728
<212> DNA
<213> *Saccharomyces cerevisiae*
<400> 461

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tttgcagcaa agaaggggga ggagaaagca aagaacctga taaaggaag gatagttgag 600
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<210> 462
<211> 1536
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 462
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<210> 463
<211> 3342
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 463

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gttgaagcta gaaagttggt ttccaagcac tggaacgcca ttgatgaatc cactagagcc 240
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 <213> Saccharomyces cerevisiae

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<210> 471
 <211> 324
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 471

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catttttact ccttgatcgc ctga

324

<210> 472
<211> 363
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 472

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tctgatatca gagctcactt ggcccaatac tactctttcc aagccgctca tccaactgaa 180
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actggtattg cccagacca agtgaccaga atgatcaccg gtgttccatg gtactccagc 300
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tag 363

<210> 473
<211> 1917
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 473

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<210> 474
 <211> 1152
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 474

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<210> 475
 <211> 2106
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 475
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 gaagtagcat tatcagaggt gatagcaca gatattattg aagtaggggc tagtgttgag 180
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<210> 476
 <211> 1692
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 476

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 gacttcactg tttccacag aatgtctgcc aacatttctg aaaccactgc tatgatcact 420
 gacattgcta cgcgccagc tgaaattgac agatgtatca gaaccactta cgtcacccaa 480
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<210> 477
 <211> 2685
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 477

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<210> 478
<211> 4086
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 478

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<212> DNA
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<210> 481
<211> 2115
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 481

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<210> 482
 <211> 2028
 <212> DNA
 <213> *Saccharomyces cerevisiae*
 <400> 482

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<210> 483
 <211> 3195
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 483

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<210> 484
<211> 1041
<212> DNA
<213> *Saccharomyces cerevisiae*
<400> 484

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ggtgccggcg cagaggccgg gaaccaaagg tccttcatcc tctacacgga cctgagcagc 660
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<210> 485
<211> 2880
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 485

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 catcctctac tgaaaagaag tatagccaaa ctaaaagaaa acccagtgtg caagtttgaa 2820
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<210> 486
 <211> 1335
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 486

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 catccagaat tgagaaactg tgttactctc ttttatttga ttttaagggc tttggatacc 240
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aaagaaagat ccagatacga tgatgaattg gttccaaccc aacaagaaga agagtacaag 1260
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ttacacagag cgtga 1335

<210> 487
<211> 1683
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 487

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ttaactaaga gacaaatcct taacaacttt gaaattttag ccactttggg taatggacag 180
tacggcaaag tgaaattagc aagagatctc gggacaggtg cgttggttgc aataaaaatt 240
cttaatagat tcgaaaaaag aagcgggtat tctcttcaat tgaaagtaga aaatccaagg 300
gttaatcaag aaattgaagt aatgaaaaga tgatcatcatg aaaacgttgt ggaattgtat 360
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 tag 1683

<210> 488
 <211> 2145
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 488

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 gatttcagaa acatcaaaat tgtagaagaa cctgttgtag tttctcaca tagttcaatt 180
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 aataatagac cattgaatac attaaactgg tcaccaata ttcttttacg atattctgac 420
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 cgggaaaaaa gaagcttgag gcgtaatgcc agaaaaggtc tatag 2145

<210> 489
 <211> 573
 <212> DNA
 <213> *Saccharomyces cerevisiae*
 <400> 489

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 attggaatcg gcagagaacc tgggtcccgt tctagagacc ctgcgagcgt gtccccgggtg 480
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<210> 490
 <211> 615
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 490

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<210> 491
 <211> 633
 <212> DNA

<213> Saccharomyces cerevisiae

<400> 491

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<210> 492

<211> 1377

<212> DNA

<213> Saccharomyces cerevisiae

<400> 492

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<210> 493
 <211> 2865
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 493

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<210> 494
 <211> 786
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 494

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 atcatggagg ggttcgaaga ggtctatcgt gaacaagggt cgaaagggtc caagaaactg 720

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<210> 495
 <211> 2418
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 495

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<210> 496
 <211> 2295
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 496

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 acttcggttg catcattaaa ggctatccga tcaggaaatg aagaggaaag cggaacgag 180

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<210> 497
 <211> 2013
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 497

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 gtcagtaaaa agaaaccagg gaataaggtc tctgatggaa gagataatgc acataattat 180
 cacggggaag gccgcagaaa aagtagcaaa caacagaggt caagaacgcc ctataaggag 240
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<210> 498
 <211> 390
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 498

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gaaagcgga atgggatcag caaacaataa 390

<210> 499
<211> 1848
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 499

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<210> 500
 <211> 1770
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 500

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<210> 501
<211> 1677
<212> DNA
<213> *Saccharomyces cerevisiae*
<400> 501

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<210> 507
 <211> 1632
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400>

507

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<210> 508
<211> 1383
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 508

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<210> 509
<211> 1314
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 509

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<210> 510
 <211> 1350
 <212> DNA
 <213> *Saccharomyces cerevisiae*
 <400> 510

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c c a t t c a a g g c c g a c c a c t a c a g a t a t t g a 1350

<210> 511
<211> 378
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 511

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g c a g c t t g g t g g a c a t g t t g c g t g a c a g t c a c a g c a a c t g g g g c a g a t a a a g c g a c a g a t 120
g c a g a t g c g g c c a g t a g t g a g a c t t t a g a a a a t t t c a t c t t t g t a a g t t t t a t t a a a g g a 180
a t g g t a t t g t t t t a t g a t g g g c t g t t t c g a g g a a c g a t g a t a c c a a g a g c c a a c a g a t c c 240
a t c a c a g c a a t a t g t a a c a c t c t g c g a c a a g c a t a t a t a t a t a c a a a g a t c c a a a g c a t t 300
g c c t t t g a a c g a c g t c t a t g t t t c c a a a a c a t t a c a t a t a g a g a a g t g c g t g a g a t a c a c 360
g a a a t g t a c t g t a a a t a g 378

<210> 512
<211> 1026
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 512

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c a a g a a t t t c a a c t t g t c t c c g c t g c a a a t t t g c c c t c t t t a t c a a g t a g t a c a a a g g c a 120
g c a g a t a g t t c t a g t a a a g g c a g c t c t t c a g c c a a g a c a a c c a c g t c c t t a g g c a a a a g c 180
t c a g t a a c c a g t a a g g a t g t t t c g t c a a g t c a t a a t g t c a c t t c a a g c a c t a a a a t g c c c 240
a a a a t c a c c a c g a g c g c t a g t a c a a g c t t a t a c a c c a a c t c t a g t t t a t g g a g c a a c a a c 300
a g t g t a a t a t c a a c t t c a t c t a t t a c a c c t t c c a g c g t t t a t a t c c c g g t t a c g g a c g g a 360
a a t a a a t t c t t a t a t c a g g c t c a t c a t c c t a a c g g t a c t g t g t t c a t t g c a t t t g c t g g c 420
t g t t t a g g t g c a a t t c t a c t a t c a c t g a c g g g t g c a t g g a t t g c a t t g a a t a t a a a g t c a 480
t g g c g a a g t g c t a g a a a g g a a a a t a a g c t g a g a a a t c t a g a a a a t c a a t a c c a a c a c g a t 540
c c t t t c t a c t t c c a a a c a a a c a t t a a t g a c g a c g a a a g t g a a a c a t c t t c c c a t t c t g a c 600

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<210> 513
 <211> 1356
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 513

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<210> 514
<211> 1686
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 514

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<210> 515
<211> 1989
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 515

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<400> 522

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 <211> 1152
 <212> DNA

<213> Saccharomyces cerevisiae

<400> 523

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<210> 524

<211> 2175

<212> DNA

<213> Saccharomyces cerevisiae

<400> 524

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<210> 525
 <211> 336
 <212> DNA
 <213> *Saccharomyces cerevisiae*

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<210> 526
 <211> 1878
 <212> DNA
 <213> *Saccharomyces cerevisiae*

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1878

<210> 527
<211> 4434
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 527

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 <211> 318
 <212> DNA

<213> Saccharomyces cerevisiae

<400> 528

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<210> 529

<211> 1818

<212> DNA

<213> Saccharomyces cerevisiae

<400> 529

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 <211> 3396
 <212> DNA
 <213> *Saccharomyces cerevisiae*

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 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 539

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 <211> 630
 <212> DNA

<213> Saccharomyces cerevisiae

<400> 541

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<210> 542

<211> 1836

<212> DNA

<213> Saccharomyces cerevisiae

<400> 542

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<400> 543

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2595

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<211> 2832
<212> DNA
<213> *Saccharomyces cerevisiae*

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 <212> DNA
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<400> 547

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<211> 2376
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<213> *Saccharomyces cerevisiae*

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 <213> *Saccharomyces cerevisiae*

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<210> 550
<211> 846
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 550

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tttactctga aggcgaagca gggcgtgaca gaaggcccca tccaaactag cgtagaagga 180
cggttttatg acaggaagga gggagtgtcg ctatctcaga gttggtcgaa ccagaacagg 240
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<210> 551
<211> 1176
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 551

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 gcggaagaac gtgccagcgt tgctacacca ttaaaggaca ttatgattgg tgatgaggca 180
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 gaatcgtatg agttaccaga tggcaggaca atcaaagtgg gacaagagag atttgaagca 780
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<210> 552
 <211> 1587
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 552
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 cccaagggtg tggacaagat gattaagaca tctcgtggag aaatcatcat ctctaattgat 180

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gtacttgtaa gtacaagtgc aattacctta gcgtctgaat gtgttaaadc catcttacgt 1560
attgatgata ttgcattcag ccgttaa 1587

<210> 553
<211> 630
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 553

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cgagcagtgg taaaaggcaa tgaacttcgt tcaccatcaa agagaaggtc acaaatagac 120
acagactatg cactaaggcg aagtccaata aagacaatcc aaattttctaa agctgcacaa 180
tttatgctgt atgaggaaaac ggctgaagaa agaaacatag ctgtccacag acataatgaa 240
atatacaata ataacaattc tgtgagcaat gagaataatc cttcccaagt aaaagaaaaac 300
ctttcaccgg ctaaaatttg cccttatgaa agagcatttt taagggaagg aggaagaatt 360
gcattgaagg acttaagtgt tgacgaattc aaaggttaca tacaggatcc tctcaccgat 420
gagactatac cactgacgtt gccactgggt gataaaaaaa tcagcctacc cagttttata 480
acgccgccaa gaaattcgaa gatatctatt ttcttcacta gtaaacacca aggacagaac 540
ccagagacaa agatatcccg ttctaccgat gacgtcagtg aaaaaaaagt agtgagaaaa 600
ctgtccttcc acgtctatga agatgagtaa 630

<210> 554

<211> 1671

<212> DNA

<213> *Saccharomyces cerevisiae*

<400> 554

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aattatgaag gctgttacag tgccgcggat atccagtctg ctggactgtc tctgaaaaac 180
tcatacatat atcaatcagt gtcatactgt caaaaccagt gcctgagtc agcagtagta 240
gcattattta acgggtcaga ttgttactgc ggtaattcgg taagttttct gacttctttg 300
acgaaatcaa cagattcaaa ctgtggaact aaatgctctg gctggcctta ccaaagtgtg 360
ggaggggtcat cgtacatgaa cgtgtatgta aatgctgaaa cttttgtttc atcggttgaa 420
tcttctctct ccaaagaagg gtctagcact tcctatatgc cctcaacaac ttcttcattg 480
tcctccgccc aaatttcttc aactactagg agaacgtcaa cagatatgaa aagttctgaa 540
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tcctctacta cctcttctac cacctcttct accacctctt ctaccacctc ttctaccacc 720
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 agtgccaatt ctttaccga catgatgatg agcggaccat tgcaagtgg aaaccctgat 1620
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<210> 555
 <211> 981
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 555

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 accgaacact tcggtatgaa gctattaagc agaaaggatt ttgaagaagc aaaatttagc 180
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 gactacaaga tcaacaacgg gaatgaggaa cctcatcgtg gatttgggca catctgtttt 360

tctgtatccg atatcaataa aacctgcgaa gagctagaat ctcagggtgt caaattcaag 420
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ggcagaatga agaattattgc ctttttgaag gatcctgatg gttattccat tgaagtcgtt 960
cctcatgggtt tgattgccta a 981

<210> 556
<211> 2862
<212> DNA
<213> *Saccharomyces cerevisiae*
<400> 556

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attaatgaag aaaaaaagcc agaaccgcta ccgcagggcg tctggcaatg gctgaagccg 240
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ttttgggggt tcctttacat tatttacaga gaattgtatt ttacacctc tatgaagcaa 540
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agagtctgga tcgcaagagg ttccggttca attgaagcaa tgggtcaaagc aagggacaat 720

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aagaagttaa acaaaaaaag tccgcaatta tctgtctctg ataatatgtc tgaatatgtc 840
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<210> 557
<211> 1839
<212> DNA
<213> *Saccharomyces cerevisiae*
<400> 557

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 gatagaaaag gaatgctcaa gaaagaaaaa ttgaagcata tgcaagggtct gttgaattcc 1740
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<210> 558
 <211> 771
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 558

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<210> 559
 <211> 1650
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 559

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gacgacattg gaaaactcga tctatccaat attcacaacg aacgcatgca tcagttgttg 6960
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<210> 564
<211> 1596
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 564

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gctagtatta ctccatataa gttggtgaat aagaacaagg aaaacaacac ttttacgtgg 180
aatcattcat tacaacacca gaatgaatcg agtgcagctt cgatacccc acaacaaccc 240
taccatttcc cgatattcaa caaatacgcg gatcctactt taactaccac cacctctttt 300

acgactagtg aagcaacggc caacgataga cagattaata atgtccatct cataccaaac 360
 gagattaagg gtgctagcga aacccattg cagaagaccg tcaatctaaa gaataataatg 420
 aaagtatcag acccgtatgt accgacacgg aatacgttca attatgatgt taaaatttcc 480
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 tttgcaaagg ctaatatggg ttatgtcatg ggttaa 1596

<210> 565
 <211> 297
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 565

atgataacta aatacttcag taaggtaatt gtcaggttta atccctttgg caaggaagcg 60

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attcaatcgg aaattatctc agattacaat aaagtcaagc ctcttgtaga agtaacctac 180
aaggacaaaa aagaaatgga agtcgatcca tcaaacaatga actttcagga attagccaat 240
catttcgacc gtcactcgaa acagctggat ctcaaacata tggttgaaat gcattga 297

<210> 566
<211> 363
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 566

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actacatccg ggggaccatc aacctcactt actataatgt tgtcagtcac cgctatacga 120
atcctccctg ctggcatgag aaattggata cgccaagccc tgggcagcct cctctttgca 180
tcgtttctct tgctttcatc ttccactat ccaattacc tgactctcgt tctgtctat 240
catgagtctc ttgtcaagcc aacaagtgtt tcctttggag gtatacgatt gtctcaactt 300
actatgatta tggagaggag agcaacgcct acgtgtcaag acccatcggt aaccgaggtc 360
tag 363

<210> 567
<211> 1908
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 567

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cgatcagcaa caattccgtt tggatgaatac atatttaaaa gattgttgct catcgatacg 120
aaatcagttt tcggtgttcc tggatgactc aacttatctc tattagaata tctctattca 180
cctagtgttg aatcagctgg cctaagatgg gtcggcacgt gtaatgaact gaacgccgct 240
tatgcccgcg acggatatcc cgttactct aataagattg gctgtttaat aaccacgtat 300
ggcgttggtg aattaagcgc cttgaacggt atagccggtt cgttcgctga aaatgtcaaa 360
gttttgcaca ttgttggtgt ggccaagtcc atagattcgc gttcaagtaa ctttagtgat 420
cggaacctac atcatttggg ccacagcta catgattcaa attttaaagg gccaaatcat 480

aaagtatatc atgatatggt aaaagataga gtcgcttgct cggtagccta cttggaggat 540
 attgaaactg catgtgacca agtcgataat gttatccgcg atattttacaa gtatttctaaa 600
 cctgggttata tttttgttcc tgcagatttt gcggatatgt ctgttacatg tgataatttg 660
 gttaatgttc cacgtatatc tcaacaagat tgtatagtat acccttctga aaaccaattg 720
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 aaaagaagcg ggatagaact tttagaagtc aaattaggcg aattggattt ccccgaacag 1860
 ctaaagtgca tgggtgaagc agcggcactt aaaagaaata aaaaatag 1908

<210> 568
 <211> 417
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 568

atgatatttc taaaatctgt catcaaggta atcgacaatt caggtgcaca attagcagaa 60
tgtattaaag taataaggaa aggggtcccc aagagtcctg caatggttgg agacagaata 120
gtctgtgtta tacagaaagc aaagcccttg actcaaaaca ttacggggac agccaacacc 180
aaccgtgtca aaaaagggtga tatttgtcac gcaattgtcg taaggctctaa acagcgtaac 240
atgtgcagaa aggatggctc caccgttgca ttccggagata ctgcttgctg tttgattaat 300
aaaaataccg gtgaacctct ggggacaaga attatggcta atgatggttg tgtagataga 360
aactgaaag acaaggata caataagata tgctctttgg caagtagggt catataa 417

<210> 569

<211> 768

<212> DNA

<213> *Saccharomyces cerevisiae*

<400> 569

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atccttgaaa agcaagaatc ggcgttaacg ggcgacgctg atgcagtgtt caatatcgcc 120
atcagtggag gatcgatgaa ccaagcgctg tacgaaagtt tggtaaata caaaaacatt 180
ttccacata ttaagtggcc acaatggaga atcttcttct gtgacgaaag attggttcca 240
tttgaggatc cgcaaagtaa ctatggctag ttcaaaaaaa cagtttttga cccgctagt 300
catcagggca accaattgaa cttaggcccc actgtataca ctatcaacga atcattaatc 360
gggtggcgggtg aaacggccaa tagaaagatt gccgaagaat acgcttccat gctgcctgca 420
tcattcgacc taatcttact cggatgcgga gaagatggac atacatgctc gttgtttccc 480
ggggttgaat ttaattacct tgtagaagag atggaccgca aggttttatg gtgtaataat 540
tcgcccagg caccgaagga caggatcacc ttacattag cagtagtagc cgaggctaaa 600
agtgtgtgct ttctcgttag gggagctgct aaaaaggcta tcatgcatga cgtgttaatc 660
gtaaaaaata gcgaactacc tagtgtgctg gttaatgaaa tggtcggaac caaagtaact 720
tggtttctcg acgacgaagc tggcgcttg attcctgaaa actgctaa 768

<210> 570

<211> 324

<212> DNA

<213> Saccharomyces cerevisiae

<400> 570

atgagtaggg ctagcaagat aacgtttgca gcttcctgtc tgataacggc agcgacggta 60
gtgggcgtgc attatgtgca agaaatggaa agggaaactt tgcatacagg tccgataaaa 120
gatgctaaac gagtcgaaga aaagaggttg agaaagacaa acggagttgc atcattagat 180
cccacaaaag aaaggaaaag gtacttcaat atgagtgaac acgaggaaca aaaagagttg 240
cgaaagaagt atgagaccat gcaaccgctt agtggagaag ttgtgaccaa agatggagag 300
gtgggttaaag aatctaagaa ataa 324

<210> 571

<211> 936

<212> DNA

<213> Saccharomyces cerevisiae

<400> 571

atgttgctca gaattgtatc aaacaatgca acacgctccg taatgtgcca ccaagcgcaa 60
gtgggtattc ttataagac taaccagtg agaacttatg ctactttgaa agaagtggaa 120
atgcgtttga aatctatcaa aaatattgag aagatcacia aaactatgaa gattgttgca 180
tctacaagat tgagtaaagc tgaaaaggct aaaatttccg caaagaagat ggatgaagca 240
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cactctcaat tggctaaagc tgtgagaaga catttgatg atcaaccaa cgccgatata 420
gtcactattg gtgataaaat taaaatgcag ctattgagaa cccatcctaa caacattaaa 480
ttgtctatta atggaattgg taaagatgcc ccaactttcc aagaatctgc tttgattgcc 540
gataagttat tgagtgtcat gaaggccggc acttaccaa agatttccat tttctacaat 600
gaccagtggt cttccctatc ttttgaacca tctgaaaaac cgatctttaa cgccaagacc 660
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gttgaaattt cgcgcagaag aaacgctatg gataacgctt ccaagaatgc cggatgatg 840
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gttgatatta ttactggtgc ttectctttg ggatga

936

<210> 572
<211> 3294
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 572

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tcaacaatag agattattcc gagtgattct ttctgaaaat ataatagtca aggcttcaaa 180
gcaaaggata cagatttaat gggtagcga ttagagtcta cttttgaaca agacgtatcg 240
caaattggaac atgatatggc cgaccaagaa gagcatgacc tgtcatcatt cgagcgtaag 300
aaacttccaa ccgattttga cccaagtttg tatgatattt ctttccaaca aattgatgcg 360
gaacagagcg tactgaatgg tatcaaagat gaaaatacat ctaccgtggg aagggttttt 420
gggtgtcacta gtgaaggaca ctctgtactt tgtaatgta cagggttcaa gaactatctt 480
tacgtcccag cgcccaattc ttccgacgct aacgatcagg agcaaataca caagtttgtg 540
cactatttaa acgaaacatt tgaccacgct attgattcga ttgaagttgt atctaaacag 600
tctatctggg gttattccgg agataccaaa ttaccattct ggaaaatata cgtcacctat 660
ccgcatatgg tcaacaaact gcgtactgcg ttgaaagag gtcattcttc attcaactcg 720
tggttttcta acggcacgac tacttatgat aacattgcct acactttaag gttaatggta 780
gattgtggaa ttgtcggtat gtcttgata acattacca aaggaaagta ttcgatgatt 840
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<210> 573
 <211> 1086
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 573

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 aatattaaaa atgctccaca ccaagtcttc agcatcaata aatgttcaga tttaaccatc 480
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 gcgaagaggg ttaaaatttt ggtgaaaaac gctactaact ggcaatggtc tgggggtgtca 1020

attaccggtg gttcttccta ttctggatgt tctggaatcc catctggatc tgggtgcaagc 1080
tggttaa 1086

<210> 574
<211> 714
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 574

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aaagtacgtg tagaaacaaa agtctTTaat aagaaaatca acaaggagtt atttcataga 120
agagattatt tagtgcata tgaaggTgaa atatcaaggg agggTgattt agtaaggata 180
gaagcgacga ggccgctttc aaagaggaag ttttttgcca ttgcagaaat tattagaaac 240
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ccgaaagagt tattggagat taaacaaagg tacggcattc aagatttttc acaagaaaca 480
gtgaggcaac ttttacagtt agacatctct ggattggagg ttaatttTga gaaacaaaga 540
agtctcattg atcgTattca aacgcgatta tccgaattgt Tgtcgaatga tctaaaatgt 600
gatcaatttt tgaaggatca tggTgttgag gatcctttga ccttgaaaaa aaacatcaaa 660
aaaaattTgt taagaaagca cgTcatgatg gatatgcaac aaccaagcca gtaa 714

<210> 575
<211> 489
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 575

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gaccaactga aaggcaaagt agttctcata gttaatgttg cctccaagtg cggcttcacg 120
ccgcagtata aagaattTga agaactatac aaaaaatatc aagataaggg gtttTgtatt 180
ttggggTtcc catgtaatca gtTcgTgaag caggaaccgT gctctgatga acaaattacg 240
gaattttgcc agttgaatta TggcgTtaca ttcccaatta tgaagaagat Tgatgttaac 300

ggaagtaatg ctgactctgt ctataattat ttgaaaagcc aaaaagcagg ttacttaggt 360
 ttcaagggtg tcaaattggaa ttttgaaaag ttcttaggtg attccaatgg taagggtgtc 420
 caaagatttt cctccttaac aaaaccatcg tccttgacc aagaaatcca aagcctgtta 480
 agtaaata 489

<210> 576
 <211> 1473
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 576

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<212> DNA
<213> *Saccharomyces cerevisiae*

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 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 578

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<210> 579
 <211> 564
 <212> DNA
 <213> *Saccharomyces cerevisiae*
 <400> 579

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<210> 580
 <211> 303
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 580

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<210> 581
 <211> 1908
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 581

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<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 582

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 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 583

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<210> 584

<211> 1152
 <212> DNA
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<400> 584

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<210> 585
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 <213> *Saccharomyces cerevisiae*

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<210> 586
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<400> 586

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<210> 587
 <211> 5097
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 587

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<212> DNA
<213> *Saccharomyces cerevisiae*
<400> 588

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<210> 590
 <211> 330
 <212> DNA
 <213> Saccharomyces cerevisiae

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 <213> Saccharomyces cerevisiae

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<210> 592
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 <213> Saccharomyces cerevisiae

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 <213> *Saccharomyces cerevisiae*

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<210> 594
 <211> 387
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 594
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387

<210> 595
<211> 1044
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 595

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<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 596

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 <211> 4308
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4308

<210> 600

<211> 3399

<212> DNA

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<400> 600

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<210> 602
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 <213> *Saccharomyces cerevisiae*

<400> 602

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<211> 1395
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 <213> *Saccharomyces cerevisiae*

<400> 613

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<210> 614
 <211> 2013
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 614

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<210> 615
 <211> 1227
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 615

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<210> 616
 <211> 1956
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 616

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<210> 617
 <211> 342
 <212> DNA
 <213> *Saccharomyces cerevisiae*

<400> 617

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 aatttactac cccattttag cgtcagtga ttggtaaact cctttgctag caagggtactg 240

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<210> 618
<211> 363
<212> DNA
<213> *Saccharomyces cerevisiae*
<400> 618

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<210> 619
<211> 462
<212> DNA
<213> *Saccharomyces cerevisiae*
<400> 619

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<210> 620
<211> 1764
<212> DNA

<213> Saccharomyces cerevisiae

<400> 620

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<211> 1929
<212> DNA
<213> *Saccharomyces cerevisiae*

<400> 621

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<210> 622
 <211> 358
 <212> PRT
 <213> Glycine max
 <400> 622

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		20						25					30		
Ala	Ser	Ser	Phe	Phe	Ile	Ser	Val	Tyr	Tyr	Ala	Tyr	Gln	Arg	Thr	Trp
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Lys	Pro	Phe	Asn	Pro	Ile	Leu	Gly	Glu	Thr	Tyr	Glu	Met	Val	Asn	His
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Gly	Gly	Ile	Thr	Phe	Ile	Ser	Glu	Gln	Val	Ser	His	His	Pro	Pro	Met
65					70					75				80	
Ser	Ala	Gly	His	Ala	Glu	Thr	Glu	His	Phe	Thr	Tyr	Asp	Val	Thr	Ser

85

90

95

Lys Leu Lys Thr Lys Phe Leu Gly Asn Ser Val Asp Val Tyr Pro Val
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Gly Arg Thr Arg Val Thr Leu Lys Arg Asp Gly Val Val Leu Asp Leu
115 120 125

Val Pro Pro Pro Thr Lys Val Ser Asn Leu Ile Phe Gly Arg Thr Trp
130 135 140

Ile Asp Ser Pro Gly Glu Met Ile Leu Thr Asn Leu Thr Thr Gly Asp
145 150 155 160

Lys Val Val Leu Tyr Phe Gln Pro Cys Gly Trp Phe Gly Tyr Glu Val
165 170 175

Asp Gly Tyr Val Tyr Asn Ser Ala Asp Glu Pro Lys Ile Leu Met Thr
180 185 190

Gly Lys Trp Asn Glu Ala Met Asn Tyr Gln Val Cys Asp Ser Glu Gly
195 200 205

Glu Pro Leu Pro Gly Thr Glu Leu Lys Glu Ile Trp Arg Val Ala Asp
210 215 220

Thr Pro Lys Lys Asp Lys Phe Gln Tyr Thr His Phe Ala His Lys Ile
225 230 235 240

Asn Ser Phe Asp Thr Ala Pro Lys Lys Leu Leu Ala Ser Asp Ser Arg
245 250 255

Leu Arg Pro Asp Arg Met Ala Leu Glu Lys Gly Asp Leu Ser Thr Ser
260 265 270

Gly Tyr Glu Lys Ser Ser Leu Glu Glu Arg Gln Arg Ala Glu Lys Arg
275 280 285

Asn Arg Glu Ala Lys Gly His Lys Phe Thr Pro Arg Trp Phe Asp Leu
290 295 300

Thr Asp Glu Val Thr Pro Thr Pro Trp Gly Asp Leu Glu Val Tyr Gln
305 310 315 320

Tyr Asn Gly Lys Tyr Thr Gln His Cys Ala Ala Val Asp Ser Ser Glu
325 330 335

Cys Ile Glu Val Pro Asp Ile Arg Pro Glu Phe Asn Pro Trp Gln Tyr
340 345 350

Asp Asn Leu Asp Ala Glu
355

<210> 623
 <211> 300
 <212> PRT
 <213> Glycine max

<400> 623

Met Cys Asn Asn Gly Gln Ser Pro Leu Asp Arg Phe Ile Ser Val Val
 1 5 10 15

Ala Trp Cys Ile Ser Thr Thr Arg Pro Val Thr Phe Gly Val Ala Pro
 20 25 30

Tyr Asn Pro Ile Leu Gly Glu Thr His His Val Ser Arg Gly Asn Leu
 35 40 45

Asn Val Leu Leu Glu Gln Ile Ser His His Pro Pro Val Thr Ala Leu
 50 55 60

His Ala Thr Asp Glu Lys Glu Asn Ile Glu Met Leu Trp Cys Gln Arg
 65 70 75 80

Pro Asp Pro Lys Phe Asn Gly Thr Ser Val Glu Ala Lys Val His Gly
 85 90 95

Ile Arg Gln Leu Lys Leu Leu Asn His Gly Glu Thr Tyr Glu Met Asn
 100 105 110

Cys Pro Arg Leu Leu Leu Arg Ile Leu Pro Val Pro Gly Ala Asp Trp
 115 120 125

Ala Gly Thr Val Asn Ile Arg Cys Leu Glu Thr Gly Leu Val Ala Glu
 130 135 140

Leu Ser Tyr Arg Ser Ser Ser Phe Leu Gly Ile Gly Gly Asn His Arg
 145 150 155 160

Val Ile Lys Gly Lys Ile Leu Asp Ser Ser Ser Leu Lys Val Leu Tyr
 165 170 175

Glu Val Asp Gly His Trp Asp Arg Thr Val Lys Val Lys Asp Thr Asn
 180 185 190

Asn Gly Lys Val Arg Val Ile Tyr Asp Ala Lys Glu Val Met Ser Gly
 195 200 205

Leu Glu Thr Pro Ile Leu Lys Asp Ile Glu Gly Val Trp Gln Thr Glu
 210 215 220

Ser Ala His Val Trp Gly Glu Leu Asn Gln Ala Ile Val Ser Lys Asp
 225 230 235 240

Trp Glu Lys Ala Arg Glu Ala Lys Leu Lys Val Glu Glu Arg Gln Arg
 245 250 255

Glu Leu Val Arg Glu Arg Glu Ser Lys Gly Glu Thr Trp Ile Ser Lys
 260 265 270

His Phe Val Val Ser Asn Asn Lys Glu Gly Trp Gln Cys Ser Pro Ile
 275 280 285

His Lys Ser Val Pro Ala Ala Pro Ile Thr Ala Leu
 290 295 300

<210> 624
 <211> 355
 <212> PRT
 <213> Glycine max

<400> 624

Met Ala Glu Leu Met Glu Tyr Ser Tyr Leu Leu Asp Met Ala Asp Lys
 1 5 10 15

Thr Glu Asp Pro Tyr Met Arg Leu Val Tyr Ala Ser Ser Phe Phe Ile
 20 25 30

Ser Val Tyr Tyr Ala Tyr Gln Arg Thr Trp Lys Pro Phe Asn Pro Ile
 35 40 45

Leu Gly Glu Thr Tyr Glu Met Val Asn His Gly Gly Ile Thr Phe Ile
 50 55 60

Ser Glu Gln Val Ser His His Pro Pro Met Ser Ala Gly His Ala Glu
 65 70 75 80

Thr Glu His Phe Thr Tyr Asp Val Thr Ser Lys Leu Lys Thr Lys Phe
 85 90 95

Leu Gly Asn Ser Val Asp Val Tyr Pro Val Gly Arg Thr Arg Val Thr
 100 105 110

Leu Lys Arg Asp Gly Val Val Leu Asp Leu Val Pro Pro Pro Thr Lys
 115 120 125

Val Ser Asn Leu Ile Phe Gly Arg Thr Trp Ile Asp Ser Pro Gly Glu
 130 135 140

Met Ile Leu Thr Asn Leu Thr Thr Gly Asp Lys Val Val Leu Tyr Phe
 145 150 155 160

Gln Pro Cys Gly Trp Phe Gly Ala Gly Arg Tyr Glu Val Asp Gly Tyr
 165 170 175

Val Tyr Asn Ser Ala Asp Glu Pro Lys Ile Leu Met Thr Gly Lys Trp
 180 185 190

Asn Glu Ala Met Asn Tyr Gln Val Cys Asp Ser Glu Gly Glu Pro Leu
 195 200 205

Pro Gly Thr Glu Leu Lys Glu Ile Trp Arg Val Ala Asp Thr Pro Lys
 210 215 220

Lys Asp Lys Phe Gln Tyr Thr His Phe Ala His Lys Ile Asn Ser Phe
 225 230 235 240

Asp Thr Ala Pro Lys Lys Leu Leu Ala Ser Asp Ser Arg Leu Arg Pro
 245 250 255

Asp Arg Met Ala Leu Glu Lys Gly Asp Leu Ser Thr Ser Gly Tyr Glu
 260 265 270

Lys Ser Ser Leu Glu Glu Arg Gln Arg Ala Glu Lys Arg Asn Arg Glu
 275 280 285

Ala Lys Gly His Lys Phe Thr Pro Arg Trp Phe Asp Leu Thr Asp Glu
 290 295 300

Val Thr Pro Thr Pro Trp Gly Asp Leu Glu Val Tyr Gln Tyr Asn Gly
 305 310 315 320

Lys Tyr Thr Gln His Cys Ala Ala Val Asp Ser Ser Glu Cys Ile Glu
 325 330 335

Val Pro Asp Ile Arg Pro Glu Phe Asn Pro Trp Gln Tyr Asp Asn Leu
 340 345 350

Asp Ala Glu
 355

<210> 625
 <211> 414
 <212> PRT
 <213> Zea mays

<400> 625

Met Ala Thr Lys Glu Glu Ala Ser Ala Val Pro Ala Ala Ser Lys Thr
 1 5 10 15

Ser Trp Ser Ser Phe Leu Lys Ser Ile Ala Ser Phe Asn Gly Asp Leu
 20 25 30

Ser Ser Leu Thr Ala Pro Pro Phe Ile Leu Ser Thr Thr Ser Leu Thr
 35 40 45

Glu Tyr Ser Ala Tyr Trp Cys Glu His Pro Ala Leu Phe Val Ala Pro
 50 55 60

Ala Arg Glu Pro Asp Pro Ala Lys Arg Ala Leu Leu Val Leu Lys Trp

65		70		75		80									
Phe	Leu	Ser	Thr	Leu	His	Gln	Gln	Tyr	Cys	Ser	Arg	Ser	Glu	Lys	Leu
				85					90					95	
Gly	Ser	Glu	Lys	Lys	Pro	Leu	Asn	Pro	Phe	Leu	Gly	Glu	Leu	Phe	Leu
			100					105					110		
Gly	Lys	Trp	Ile	Glu	Asp	Glu	Asp	Val	Gly	Glu	Thr	Arg	Leu	Ile	Ser
		115					120					125			
Glu	Gln	Val	Ser	His	His	Pro	Pro	Ala	Thr	Ala	Tyr	Ser	Ile	Val	Asn
	130					135					140				
Glu	Lys	His	Gly	Val	Glu	Leu	Gln	Gly	Tyr	Asn	Ala	Gln	Lys	Ala	Ser
145					150				155						160
Phe	Ser	Ser	Thr	Ile	Gln	Val	Lys	Gln	Leu	Gly	His	Ala	Tyr	Leu	Ser
				165				170						175	
Leu	Thr	Pro	Pro	Gly	Lys	Asp	Ala	Asn	Asn	Glu	Asp	Asp	Arg	Glu	His
		180						185					190		
Tyr	Leu	Ile	Thr	Leu	Pro	Asn	Leu	His	Ile	Glu	Ser	Leu	Ile	Tyr	Gly
	195					200						205			
Thr	Pro	Phe	Val	Glu	Leu	Glu	Lys	Ser	Cys	Lys	Ile	Ala	Ser	Ser	Thr
	210					215					220				
Gly	Tyr	Ile	Ser	Lys	Ile	Asp	Phe	Ser	Gly	Lys	Gly	Trp	Leu	Ser	Gly
225					230					235					240
Lys	Lys	Asn	Thr	Phe	Ser	Ala	Val	Leu	Tyr	Lys	Glu	Ser	Asp	Gly	Glu
				245					250					255	
Lys	Asn	Pro	Leu	Tyr	Thr	Ala	Asp	Gly	Gln	Trp	Ser	Ser	Ser	Phe	Thr
		260						265					270		
Ile	Arg	Asp	Ala	Arg	Ala	Lys	Lys	Asp	Ile	Glu	Thr	Phe	Thr	Ile	Ser
		275					280					285			
Asn	Leu	Lys	Thr	Thr	Pro	Leu	Thr	Val	Ala	Pro	Leu	Asp	Glu	Gln	Asp
	290					295					300				
Glu	Trp	Glu	Thr	Arg	Arg	Ala	Trp	Arg	Asp	Val	Ala	Ala	Ala	Ile	Glu
305					310					315					320
Arg	Gly	Asp	Met	Glu	Ala	Thr	Ser	Asn	Ala	Lys	Thr	Lys	Ile	Glu	Val
				325					330					335	
Ala	Gln	Arg	Glu	Leu	Arg	Lys	Lys	Glu	Lys	Glu	Gln	Gly	Glu	Glu	Trp
			340					345					350		
Glu	Arg	Arg	Phe	Phe	Lys	Arg	Val	Asn	Glu	Lys	Asp	Glu	Pro	Thr	Phe

355

360

365

Met Arg Leu Ala Ala Met Leu Asp Leu Thr Gln Gly Ile Glu Ser Asp
 370 375 380

Arg Thr Gly Gly Val Trp Arg Phe Asp Pro Ser Arg Ala Val Asp Ala
 385 390 395 400

Asn Pro Pro Tyr His Lys Val Gly Gly Glu Gly Leu Gly Leu
 405 410

<210> 626

<211> 434

<212> PRT

<213> *Saccharomyces cerevisiae*

<400> 626

Met Ser Gln His Ala Ser Ser Ser Ser Trp Thr Ser Phe Leu Lys Ser
 1 5 10 15

Ile Ser Ser Phe Asn Gly Asp Leu Ser Ser Leu Ser Ala Pro Pro Phe
 20 25 30

Ile Leu Ser Pro Thr Ser Leu Thr Glu Phe Ser Gln Tyr Trp Ala Glu
 35 40 45

His Pro Ala Leu Phe Leu Glu Pro Ser Leu Ile Asp Gly Glu Asn Tyr
 50 55 60

Lys Asp His Cys Pro Phe Asp Pro Asn Val Glu Ser Lys Glu Val Ala
 65 70 75 80

Gln Met Leu Ala Val Val Arg Trp Phe Ile Ser Thr Leu Arg Ser Gln
 85 90 95

Tyr Cys Ser Arg Ser Glu Ser Met Gly Ser Glu Lys Lys Pro Leu Asn
 100 105 110

Pro Phe Leu Gly Glu Val Phe Val Gly Lys Trp Lys Asn Asp Glu His
 115 120 125

Pro Glu Phe Gly Glu Thr Val Leu Leu Ser Glu Gln Val Ser His His
 130 135 140

Pro Pro Met Thr Ala Phe Ser Ile Phe Asn Glu Lys Asn Asp Val Ser
 145 150 155 160

Val Gln Gly Tyr Asn Gln Ile Lys Thr Gly Phe Thr Lys Thr Leu Thr
 165 170 175

Leu Thr Val Lys Pro Tyr Gly His Val Ile Leu Lys Ile Lys Asp Glu
 180 185 190

Thr Tyr Leu Ile Thr Thr Pro Pro Leu His Ile Glu Gly Ile Leu Val
195 200 205

Ala Ser Pro Phe Val Glu Leu Gly Gly Arg Ser Phe Ile Gln Ser Ser
210 215 220

Asn Gly Met Leu Cys Val Ile Glu Phe Ser Gly Arg Gly Tyr Phe Thr
225 230 235 240

Gly Lys Lys Asn Ser Phe Lys Ala Arg Ile Tyr Arg Ser Pro Gln Glu
245 250 255

His Ser His Lys Glu Asn Ala Leu Tyr Leu Ile Ser Gly Gln Trp Ser
260 265 270

Gly Val Ser Thr Ile Ile Lys Lys Asp Ser Gln Val Ser His Gln Phe
275 280 285

Tyr Asp Ser Ser Glu Thr Pro Thr Glu His Leu Leu Val Lys Pro Ile
290 295 300

Glu Glu Gln His Pro Leu Glu Ser Arg Arg Ala Trp Lys Asp Val Ala
305 310 315 320

Glu Ala Ile Arg Gln Gly Asn Ile Ser Met Ile Lys Lys Thr Lys Glu
325 330 335

Glu Leu Glu Asn Lys Gln Arg Ala Leu Arg Glu Gln Glu Arg Val Lys
340 345 350

Gly Val Glu Trp Gln Arg Arg Trp Phe Lys Gln Val Asp Tyr Met Asn
355 360 365

Glu Asn Thr Ser Asn Asp Val Glu Lys Ala Ser Glu Asp Asp Ala Phe
370 375 380

Arg Lys Leu Ala Ser Lys Leu Gln Leu Ser Val Lys Asn Val Pro Ser
385 390 395 400

Gly Thr Leu Ile Gly Gly Lys Asp Asp Lys Lys Asp Val Ser Thr Ala
405 410 415

Leu His Trp Arg Phe Asp Lys Asn Leu Trp Met Arg Glu Asn Glu Ile
420 425 430

Thr Ile